Contents Volume 8:1 March 1985

Fodor, J. A. Précis of *The modularity of mind* 1

Open Peer Commentary

Caplan, D. A neo-Cartesian alternative 6
Carroll, J. B. On Spearman's "problem of correlation" 7
Fodor, J. D. Module or muddle? 7
Forster, K. I. Special purpose computation: All is not one 9
Gallistel, C. R. & Cheng, K. A modular sense of place? 11
Gardner, H. The centrality of modules 12
Glucksberg, S. Modularity: Contextual interactions and the tractability of nonmodular systems 14
Glymour, C. Fodor's holism 15
Gross, C. G. On Gall's reputation and some recent "new phrenology" 16
Grossberg, S. Cognitive self-organization and neural modularity 18
Hunt, E. Evidence for and against modularity 19
Jusczyk, P. W. & Cohen, A. What constitutes a module? 20
Kagan, J. The mind as a Necker Cube 21
Killeen, P. R. The modularity of behavior 22
Kinsbourne, M. Parallel processing explains modular informational encapsulation 23
Marshall, J. C. Combe's crucible and the music of the modules 23
Mattingly, I. G. & Liberman, A. M. Verticality unparalleled 24
Morton, J. Too little and latent 26
Rey, G. Quinity, isotropy, and Wagnerian rapture 27
Robinson, D. N. Faculties, modules, and computers 28
Scarr, S. A rapprochement of biology, psychology, and philosophy 29
Schank, R. & Hunter, L. Encapsulation and expectation 29
Schwartz, B. Organic insight into mental organs 30
Seidenberg, M. S. Lexicon as module 31
Sternberg, R. J. Controlled versus automatic processing 32

Author's Response

Fodor, Jerry A. Reply module 33

Rachlin, H. Pain and behavior 43

Open Peer Commentary

Ainslie, G. Behavior is what can be reinforced 53
Atkinson, J. H., Jr. & Kremer, E. F. Behavioral definition of pain: Necessary but not sufficient 54
Bernstein, D. J. Internal events as behavior, not causes 55
Campbell, K. Pain is three-dimensional, inner, and occurrent 56
Clark, W. C. Heuristically, "pain" is mainly in the brain 57
Fordyce, W. E. On Rachlin's "Pain and Behavior": A lightening of the burden 58
Foss, J. Radical behaviorism is a dead end 59
Genest, M. On kicking the behaviorist; or, Pain is distressing 59
Graham, G. Pain's composite wheel of woe 60
Harman, G. Is pain overt behavior? 61
Jaynes, J. Sensory pain and conscious pain 61
Kitcher, P. Chronic sensory pain 63
Lacey, H. Pain behavior: How to define the operant 64
Loeser, J. D. Against dichotomizing pain 65
Logue, A. W. Functional behaviorism: Where the pain is does not matter 66
Matson, W. I. One pain is enough 67
Melzack, R. Pain and parallel processing 67
Merskey, H. A mentalistic view of "Pain and Behavior" 68
Miles, T. R. Behavior, cognition, and physiology: Three horses or two? 68
Pepeu, G. Is there always a neurochemical link between pain and behavior? 69
Place, U. T. Semicovert behavior and the concept of pain 70
Shaver, K. G. & Herrman, J. J. Pain without behavior: Inhibition of reactions to sensation 71
Shimp, C. P. Molar behaviorism, positivism, and pain 71
Turk, C. D. & Salovey, P. The reign of pain falls mainly in the brain 72
Wall, P. D. Not "pain and behavior" but pain in behavior 73

Author's Response

Rachlin, H. Ghostbusting 73

Baker, M. C. & Cunningham, M. A. The biology of bird-song dialects 85

Open Peer Commentary

Andrew, R. J. Questions about the evolution of bird song 100
Baptista, L. F. Bird-song dialects: Social adaptation or assortative mating? 100
Brenowitz, E. A. Bird-song dialects: Filling the gaps 101
Chambers, J. K. Social adaptiveness in human and songbird dialects 102
Fasold, R. W. Bird-song dialects and human-language dialects: A common basis? 104
Gottlieb, G. The need to map auditory perception onto vocal production in bird song 104
Greenwood, P. J. Adaptation and the cause and effect of bird-song dialects 105
Grimshaw, A. D. Human and avian "dialects": A cautionary note 106

Hill, J. H. Human dialect and language differentiation 107
Jenkins, P. F. Song learning, competition, and dialects 108
Kroodsma, D. E. Limited dispersal between dialects?" Hypotheses testable in the field 108
Lemon, R. E. Functional studies in bird song 109
McGregor, P. K. Song dialects: What has to be explained, and with what? 110
Moulton, W. G. Bird-song dialects and human-language dialects 110
Mundinger, P. C. Linguistic applications to avian dialect biology 111
Nottebohm, F. Sound transmission, signal salience, and song dialects 112
Petrinovich, L. An unbalanced survey of bird-song research: Smoke gets in your eyes 113
Shields, W. M. Avian song dialects: Genetic adaptation and deceptive mimicry? 114
Slater, P. J. B. White rats and general theories 115
Snowdon, C. T. Dialects in primates? 116
Waser, P. M. Are dialects epiphenomena? 117
West, M. J. & King, A. P. Studying dialects in songbirds: Finding the common ground 117
Zink, R. M. Genetical population structure and song dialects in birds 118

Authors' Response

Baker, M. C. & Cunningham, M. A. Comparative dialectology 119

Nashner, L. M. & McCollum, G. The organization of human postural movements: A formal basis and experimental synthesis 135

Open Peer Commentary

Boylls, C. C., Jr. Postural control analysis: Adopting a stance 150
Carello, C., Turvey, M. T., & Kugler, P. N. The informational support for upright stance 151
Chapple, W. D. Position space and motor synergies: A comparative perspective 152
Delcomyn, F. The control of sets of muscles: A general principle? 153
Goldberg, G. & Kwan, H. C. Bernsteinian physiology and computational modeling: East meets West at the "boundary" 153
Greene, P. H. Task analysis of a style of behavior 155
Grossberg, S. The role of learning in sensory-motor control 155
Gurfinkel, V. S. & Popov, K. E. Constraints and some capabilities of the postural control system 157
Hollerbach, J. M. Dynamics in posture 157
Jaeger, R. Standing posture: Qualitative versus quantitative perspectives 158
Kearney, R. E. & Hunter, I. W. Should dynamic and passive properties be considered in analyses of human postural control? 158
Kuipers, B. Is this a theory of competence or performance? 159
Peterson, B. W. Suggestions for extending the domain of the Nashner–McCollum theory 160
Roberts, T. D. M. Torque and sway 160
Saltzman, E. & Kelso, J. A. S. Synergies: Stabilities, instabilities, and modes 161
Schmidt, R. A. Identifying units of motor behavior 163
Stelmach, G. E. & Worringham, C. Anatomical asymmetry and boundary crossings in postural control 164
Thelen, E. Simplifying assumptions: Can development help? 165
Thom, R. Less cybernetics, more geometry . . . 166
Zajac, F. E. Postural control: A further look at neural control strategies set by boundaries in space 167

Authors' Response

Nashner, L. M. & McCollum, G. Elements of a sensorimotor theory compatible with experiments 167

Continuing Commentary

On Wise, R. A. (1982) Neuroleptics and operant behavior: The anhedonia hypothesis. BBS 5:39–87.

Ahlenius, S. A functional consideration of anatomical connections between the basal ganglia and the thalamus suggests that antipsychotic drugs inhibit the initiation of movement 173
Crow, T. J. The anhedonia hypothesis for neuroleptics and operant behaviour 174
Fouriezos, G. Sedation-induced jumping? 174
Greenshaw, A. J. Dopamine and circling, or *décalage*? 175
Kornetsky, C. Neuroleptic drugs may attenuate pleasure in the operant chamber, but in the schizophrenic's head they may simply reduce motivational arousal 176
Kostarczyk, E. The role of arousal in hedonic evaluations 177
Schallert, T. Brain stimulation and catecholaminergic drugs: A focus on self-selected response durations versus interresponse intervals 178

Author's Response

Wise, R. A. The anhedonia hypothesis: Mark III 178

On Smith, P. K. (1982) Does play matter? Functional and evolutionary aspects of animal and human play. BBS 5:139–184.

Moran, G. Behavioral description and its impact on functional inference 186

Author's Response

Smith, P. K. Functional hypotheses and their impact on behavioral description 187

On Haber, R. N. The impending demise of the icon: A critique of the concept of iconic storage in visual information processing. BBS 6:1–54.

Mustillo, P. Iconic memory: Problems of definition, assessment, and functional role 189

Author's Response

Haber, R. N. The icon as persistence of a brief stimulus—unnecessary and silly 190

Contents Volume 8:2 July 1985

Jensen, A. R. The nature of the black–white difference on various psychometric tests: Spearman's hypothesis 193

Open Peer Commentary

Bardis, P. D. Jensen, Spearman's *g*, and Ghazali's dates: A commentary on interracial peace 219
Baron, J. Reliability and *g* 220
Borkowski, J. G. & Maxwell, S. E. Looking for Mr. Good-*g*: General intelligence and processing speed 221
Brand, C. Jensen's compromise with componentialism 222
Callaway, E. Event-related potentials and the biology of human information processing 223
Carlson, J. S. The issue of *g*: Some relevant questions 224
Carr, T. H. & McDonald, J. L. Different approaches to individual differences 225
Cattell, R. B. Intelligence and *g*: An imaginative treatment of unimaginative data 227
Das, J. P. Interpretations for a class on minority assessment 228
Eysenck, H. J. The nature of cognitive differences between blacks and whites 229
Gordon, R. A. The black-white factor is *g* 229
Gustafsson, J.-E. Measuring and interpreting *g* 231
Johnson, R. C. & Nagoshi, C. T. Do we know enough about *g* to be able to speak of black-white differences? 232
Jones, L. V. Golly *g*: Interpreting Spearman's general factor 233
Kline, P. The nature of psychometric *g* 234
Macphail, E. M. Comparative studies of animal intelligence: Is Spearman's *g* really Hull's *D*? 234
Nettelbeck, T. What reaction times time 235
Nichols, R. C. Intelligence and its biological substrate 236
Poortinga, Y. H. Empirical evidence of bias in choice reaction time experiments 236
Posner, M. I. Chronometric measures of *g* 237
Rabbitt, P. M. A. Oh *g* Dr. Jensen! or, *g*-ing up cognitive psychology? 238
Rushton, J. P. Differential K theory and group differences in *g* 239
Schafer, E. W. P. Neural adaptability: A biological determinant of *g* factor intelligence 240
Schönemann, P. H. On artificial intelligence 241
Stanovich, K. E. The black–white differences are real: Where do we go from here? 242
Sternberg, R. J. The black–white differences and Spearman's *g*: Old wine in new bottles that still doesn't taste good 244
Vernon, P. E. Interpretation of black–white differences in *g* 244
Whimbey, A. Focusing on trainable *g* 245
Wilson, J. R. Jensen's support for Spearman's hypothesis is support for a circular argument 246

Author's Response

Jensen, A. R. The black–white difference in *g*: A phenomenon in search of a theory 246

Feldman, J. A. Four frames suffice: A provisional model of vision and space 265

Open Peer Commentary

Andersen, R. A. Head-centered coordinates and the stable feature frame 289
Browse, R. A. & Butler, B. E. Could three frames suffice? 290
Dodwell, P. C. Theories of perception as experimental epistemology 291
Glassman, R. B. Linking features in dimension of mind and brain 293
Grossberg, S. Four frames do not suffice 294
Haber, R. N. Three frames suffice: Drop the retinotopic frame 295
Hinton, G. E. Three frames suffice 296
Kosslyn, S. M., Mainwaring, S. D. & Corcoran, T. A. Connectionism: There's something to it 297
Kuipers, B. The cognitive map overlaps the environmental frame, the situation, and the real-world formulary 298
Oatley, K. Reliable computation in parallel networks 299
Richmond, B. J. & Goldberg, M. E. On computer science, visual science, and the physiological utility of models 300
Zucker, S. W. Does connectionism suffice? 301

Author's Response

Feldman, Jerome A. Tunnel vision will not suffice 302

Fantino, E. & Abarca, N. Choice, optimal foraging, and the delay-reduction hypothesis **315**

Open Peer Commentary

Barnard, C. J. Skinner box ecology: Rules to forage by 330
Bovet, P. The adaptive fitness of randomness in choice and foraging behavior 331
Castonguay, T. W. Studies of food choice: The nutritional challenge 334
Davison, M. Foraging for a science of behavior 335
Dinsmoor, J. A. The integrative power of the CS–US interval in other contexts 336
Gass, C. L. Reaching for an integrated science of behavior 337
Green, R. F. An interdisciplinary approach to foraging behavior 338
Hanson, J. On the nature of support for optimal foraging theory 338
Houston, A. I. Choice and preference—you can't always want what you get 339
Kacelnik, A. & Krebs, J. R. Rate of reinforcement matters in optimal foraging theory 340
Killeen, P. R. Delay reduction: A field guide for optimal foragers? 341
Kruse, J. M. Alternative approaches to the psychology of foraging 342
Branch, M. N. Preference for a hypothesis: Is the case "closed"? 332
Brown, B. L. Pavlovian factors in choice behavior 385
Caraco, T. Encounter processes, prey densities, and efficient diets 333
Lea, S. E. G. Optimality: Sequences, variability, learning 343
McNair, J. N. Optimal foraging for operant conditioners 343
Mellgren, R. L. Outcome and mechanism in foraging 344
Peden, B. F. Foraging and feeding in operant simulations 345
Rowland, N. Of rats and men 346
Sato, M. & Sakagami, T. Is simulated foraging similar to natural foraging? 346
Shettleworth, S. J. Questions about foraging 347
Snyderman, M. Levels of explanation 348
Sokolowski, M. B. Genetic aspects to differences in foraging behavior 348
Wilkie, D. M. The validation problem 349

Authors' Response

Fantino, E. & Abarca, N. The delay-reduction hypothesis: A choice solution 350

Continuing Commentary

On Bradshaw J. L. & Nettleton, N. C. The nature of hemispheric specialization in man. BBS 4: 51–91.

Coltheart, M. Right-hemisphere reading revisited 363
Zaidel, E. & Schweiger, A. Right-hemisphere reading: A case of "déjà lu" 365

Author's Response

Bradshaw, J. L. Reading and the right hemisphere 367

On Anisman, H. & Zacharko, R. M. Depression: The predisposing influence of stress. BBS 5:89–137.

Algarabel, S. Learned helplessness, human depression, and perhaps endorphins? 369
Baenninger, R. Neurochemistry and psychological "diseases" 369
Friedhoff, A. J. & Platt, J. E. Stress and depression: Definitional problems 370
Izard, C. E. The role of emotions in a systems view of depression 371
Lloyd, C. & Swann, A. Depression and adaptation to stress: Toward a systems model 371
Post, R. M. Stress sensitization, kindling, and conditioning 372
Steele, T. E. Stress and depression: Anything new? 373

Authors' Response

Anisman, H. & Zacharko, R. M. More stress 374

Contents Volume 8:3 September 1985

Ader, R. & Cohen, N. CNS–immune system interactions: Conditioning phenomena 379

Open Peer Commentary

Anisman, H. & Zacharko, R. M. Brain and the immune system: Multiple sites of interaction 395
Ballieux, R. E. & Heijnen, C. J. The seven veils of immune conditioning 396
Cunningham, A. J. Conditional immunosuppression: An important but probably nonspecific phenomenon 397
Dworkin, B. More evidence for the role of learning in homeostasis 397
Elkins, R. L. Taste aversion proneness: A selective breeding strategy for studies of immune system conditionability 398
Engel, B. T. Immune behavior 399
Fox, B. H. Disease is a stepchild in psychoneuroimmunology 400
Friedman, S. B. CNS–immune system interaction: A psychosomatic model 400
Glaser, R. & Kiecolt-Glaser, J. K. "Relatively mild stress" depresses cellular immunity in healthy adults 401
Green, L. Pavlovian conditioned responses: Some elusive results and an indeterminate explanation 402
Hinson, R. E. Conditioned immunosuppression and the adaptive function of Pavlovian conditioning 403
Kimmel, H. D. Conditioning of immunosuppression in the treatment of transplant tissue rejection 404
Klosterhalfen, W. & Klosterhalfen, S. On demonstrating that conditioned immunomodulation is conditioned 404
Krank, M. D. Conditioning the immune system: New evidence for the modification of physiological responses by drug-associated cues 405
Melnechuk, T. Progress toward a general theory of health 406
Revusky, S. Questions about conditioned immunosuppression and biological adaptation 407
Riley, A. L. The meaning of learning 407
Rosenberg, L. T. The condition of immunology 408
Roszman, T. Behavioral conditioning of immunomodulation 408
Siegel, S. & Scoles, M. T. Psychoneuroimmunology, psychopharmacology, and synthetic physiology 409
Smotherman, W. P. Pituitary–adrenal system involvement in conditioned immune changes: Perhaps *suppressions* are playing a role 410
Solomon, G. F. The emerging field of psychoneuroimmunology 411
Veldhuis, H. D. & Wied, D. D. Is conditioned immunosuppression an adequate research strategy? 411
Weiss, J. M. Conditioned immune responses: How are they mediated and how are they related to other classically conditioned responses? 412

Authors' Response

Ader, R. & Cohen, N. The brain and the immune system: Conditioned responses to commentator stimuli 413

Gualtieri, T. & Hicks, R. E. An immunoreactive theory of selective male affliction 427

Open Peer Commentary

Adinolfi, M. Immunoselection and male diseases 441
Beatty, W. W., Beatty, P. A., & Goodkin, D. E. Testing the immunoreactive theory 442
Benbow, C. P. Intellectually gifted students also suffer from immune disorders 442
Berglin, C.-G. Male antigenicity and parity 442
Bixler, R. H. The sex ratio at conception: Male biased or 100? 443
Boklage, C. E. Undisturbed middle term in the logic of Gualtieri & Hick's immunoreactive model 444
Bukovský, A. & Presl, J. Possible involvement of maternal alloreactivity in negative parity effects 445
Costeff, H. Is the H-Y antigen a malefactor? 446
Diamond, M. C. A possible role of sex steroid hormones in determining immune deficiency differences between the sexes 447
Ferguson, M. W. J. Short and sweet: The classic male life? 448
Gillberg, C. The immunoreactive theory: One for all? 449
Gorczynski, R. M. Does maternal–fetal incompatibility lead to neurodevelopmental impairment? 450
Hoyenga, K. B. Some implications of the immunoreactive theory for evolution and sex ratios 451
James, W. H. The alleged antecedent brother effect in sex ratio 453
Jensen, A. J. Immunoreactive theory and the genetics of mental ability 453
Loke, Y. W. A reproductive immunologist's view on the role of H-Y antigen in neurological disorders 454
Mackey, W. C. Selective immunoreaction as an adaptive trait 455
Money, J. Eve first, then Adam 456
Ohno, S. Male-specific antigens and HLA phenotypes 456
Ounsted, C. The Y chromosome message 457
Petersen, A. C. & Hood, K. E. Immunoreactive theory: A conceptually narrow theory reflecting androcentric bias 457
Searleman, A. Immunoreactive theory and pathological left-handedness 458
Taylor, D. C. Development rate is the major differentiator between the sexes 459
Taylor, E. & Rutter, M. Sex differences in neurodevelopmental and psychiatric disorders: One explanation or many? 460
Taylor, P. V. Possible pathogenic effects of maternal anti-RO (SS-A) autoantibody on the male fetus 460

Authors' Response

Gualtieri, T. & Hicks, R. E. The immunoreactive theory: What it is, what it is not, what it might be 461

Rawlins, J. N. P. Associations across time: The hippocampus as a temporary memory store **479**

Open Peer Commentary

Branch, M. N. Another hippocampal theory 497
Cohen, N. J. & Shapiro, M. Minding the general memory store: Further consideration of the role of the hippocampus in memory 498
Dale, R. H. I. The hippocampus as episodic encoder: Does it play tag? 499
Deadwyler, S. A. A physiological basis for hippocampal involvement in coding temporally discontiguous events 500
Gray, J. A. Memory buffer and comparator can share the same circuitry 501
Hughey, D. J. Temporal discontiguity: Alternative to, or component of, existing theories of hippocampal function? 501
James, D. T. D. Does our behavioral methodology conceal the deficit caused by hippocampal damage? 502
Jarrard, L. E. On the hippocampus, time, and interference 503
Kimble, D. P. Sharpening the focus on functions of the hippocampus 504
Maki, W. S. Three-store theories of memory 505
Markowitsch, H. J. Memory processing by the brain: Subregionalization, species-dependency, and network character 506
McNaughton, B. L. & Barnes, C. A. The hippocampus, synaptic enhancement, and intermediate-term memory 507
McNaughton, N. Is the hippocampus a store, intermediate or otherwise? 508
Meck, W. H. Hippocampus and "general" mnemonic function: Only time will tell 509
Olton, D. S. Discontiguity and memory 510
Shimp, C. P. The development of theory: Logic of method or underlying processes? 511
Winocur, G. The hippocampus and time 512
Woodruff, M. L. & Whittington, D. L. Effects of hippocampal lesions on some operant visual discrimination tasks 513

Author's Response

Rawlins, J. N. P. Time and hippocampal lesion effects: *Tempus edax rerum*? 514

Contents Volume 8:4 December 1985

Libet, B. Unconscious cerebral initiative and the role of conscious will in voluntary action **529**

Open Peer Commentary

Breitmeyer, B. G. Problems with the psychophysics of intention 539
Bridgeman, B. Free will and the functions of consciousness 540
Danto, A. C. Consciousness and motor control 540
Doty, R. W. The time course of conscious processing: Vetoes by the uninformed? 541
Eccles, J. C. Mental summation: The timing of voluntary intentions by cortical activity 542
Jasper, H. H. Brain mechanisms of conscious experience and voluntary action 543
Jung, R. Voluntary intention and conscious selection in complex learned action 544
Latto, R. Consciousness as an experimental variable: Problems of definition, practice, and interpretation 545
MacKay, D. M. Do we "control" our brains? 546
Marks, L. E. Toward a psychophysics of intention 547
Merikle, P. M. & Cheesman, J. Conscious and unconscious processes: Same or different? 547
Mortenson, C. Conscious decisions 548
Näätänen, R. Brain physiology and the unconscious initiation of movements 548
Nelson, R. J. Libet's dualism 550
Ringo, J. L. Timing volition: Questions of what and when about W 550
Rollman, G. B. Sensory events with variable central latencies provide inaccurate clocks 551
Rugg, M. D. Are the origins of any mental processes available to introspection? 552
Scheerer, E. Conscious intention is a mental fiat 552
Stamm, J. S. The uncertainty principle in psychology 553
Underwood, G. & Niemi, P. Mind before matter? 554
Vanderwolf, C. H. Nineteenth-century psychology and twentieth-century electrophysiology do not mix 555
Van Gulick, R. Conscious wants and self-awareness 555
Wasserman, G. S. Neural mental chronometry and chronotheology 556
Wood, C. C. Pardon, your dualism is showing 557

Author's Response

Libet, B. Theory and evidence relating cerebral processes to conscious will 558

Goldberg, G. Supplementary motor area structure and function: Review and hypotheses 567

Open Peer Commentary

Brown, J. W. A prelude to the Goldberg variations on motor organization 588
Damasio, A. R. Understanding the mind's will 589
Fuster, J. M. The path to action 589
Gray, J. A. Systems and system interactions 591
Kornhuber, H. H. & Deecke, L. The starting function of the SMA 591
Libet, B. Volitional processes (planned, spontaneous, and conscious) in relation to the SMA 592
Neafsey, E. J. Preparation yes, intention no 594
Pandya, D. N. & Barbas, H. Architecture and connections of the premotor areas in the rhesus monkey 596
Porter, R. Participation of SMA neurons in a "self-paced" motor act 596
Rizzolatti, G. Free will and motor subroutines: Too much for a small area 597
Scholz, J. P., Turvey, M. T., & Kelso, J. A. S. Naturalizing the context for interpreting SMA function 598
Schultz, W. Neuronal processes involved in initiating a behavioral act 599
Tanji, J. New findings on the behavior of supplementary motor area neurons recorded from task-performing monkeys 599
Weinrich, M. Medial versus lateral motor control 599
Wiesendanger, M. The SMA: A "supplementary motor" or a "supramotor" area? 599

Author's Response

Goldberg, G. Where there is a "will," there is a way (to understand it) 601

Harrington, A. Nineteenth-century ideas on hemisphere differences and "duality of mind" 617

Open Peer Commentary

Bradshaw, J. L. Reinventing hemisphere differences 635
Černáček, J. Hemisphere asymmetry: Old views in new light 636
Corballis, M. C. Right and left as symbols 636
Eling, P. Laterality as a means and laterality as an end 637
Isler, H. & Regard, M. The case for applied history of medicine, and the place of Wigan 640
Leary, D. E. Scientific amnesia 641
Lokhorst, G.-J. C. Hemisphere differences before 1800 642
Marshall, J. C. The many-mind problem: Neuroscience or neurotheology? 642
Milner, A. D. Two hemispheres do not make a dichotomy 643
Mittwoch, U. Lateralization and sex 644
Murray, D. J. What textbooks between 1887 and 1911 said about hemisphere differences 644
Greenblatt, S. H. Brain theory and the uses of history 637
Gruzelier, J. Nineteenth-century views on madness and hypnosis: A 1985 perspective 638
Harris, L. J. The ambidextral culture society and the "duality of mind" 638
Oppenheimer, J. M. Continuity of thought on duality of brain and mind? 645
Puccetti, R. Experiencing two selves: The history of a mistake 646
Smith, A. Do we have one brain or two? Babylon revisited? 647

Author's Response

Harrington, A. Historical and scientific issues en route from Wigan to Sperry 648

Hartung, J. Matrilineal inheritance: New theory and analysis 661

Open Peer Commentary

Bernstein, I. S. Sociobiological metaphor, the rules of evidence, and matrilineal inheritance 670
Borgia, G. Do we need cultural inertia to explain matrilineal inheritance? 670
Buss, D. M. Inheritance strategies, resource allocation, and causal alternatives for individual traits 671
Ellison, P. T. Lineal inheritance and lineal extinction 672
Essock-Vitale, S. M. & Vitale, R. A. Assessment of paternity 672
Flinn, M. V. How can evolutionary theory help explain inheritance practices? 673
Fox, R. Paternity irrelevance and matrilineal descent 674
Gowaty, P. A. Low probability of paternity or . . . something else? 675
Kurland, J. A. Mother knows best? 675
Lancaster, C. S. Matrilineal inheritance: Sociobiological vs. ethnological interpretations 675
Mulder, M. B. Resource certainty or paternity uncertainty? 677
Shields, W. M. Uncertain paternity, matrilineality, and cross-cousin marriage: Hidden connections? 678
Thornhill, N. W. & Thornhill, R. Matriliny and sexual selection and conflict 679
Vining, D. R., Jr. Sociobiological theory and contemporary humans 680

Author's Response

Hartung, J. Lineal extinction—A bridge to ecology? 681

Humphreys, G. W. & Evett, L. J. Are there independent lexical and nonlexical routes in word processing? An evaluation of the dual-route theory of reading **689**

Open Peer Commentary

Balota, D. A. Bringing together some old and new concerns about dual-route theory 705
Baron, J. Back to basics 706
Bub, D. & Kertesz, A. Dual versus single routes: What we need to know before constructing a model 706
Carr, T. H. The psychology of the four-letter word, plus or minus: Humphreys & Evett's evaluation of the dual-route theory of reading 707
Chastain, G. The phonological route to the mental lexicon: Some unconsidered evidence 708
Coltheart, M. In defence of dual-route models of reading 709
Cooper, W. E. Specifying the loci of context effects in reading 710
Forster, K. I. The mechanisms of naming 711
Glushko, R. J. Further complications for dual-route theory 712
Henderson, L. Oral reading: Duel but not rout 713
Inhoff, A. W. Phonological effects in the visual processing of words: Some methodological considerations 714
Juola, J. F. Perceptual units in word recognition 715
Kay, J. Size and salience of spelling-sound correspondences 715
Lesgold, A. & Hammond, K. L. Do we look for independence or near decomposability? 716
Mitchell, D. C. Access to the lexicon: Are there *three* routes? 717
Morton, J. Criticising dual-route theory: Missing the point 718
Norris, D. So the "strong" theory loses. But are there any winners? 718
Olson, R. K. & Keenan, J. M. Segmentation in models of reading 719
Parkin, A. J. Dual-route theory and the consistency effect 720
Patterson, K. The pitfalls of selective attention 721
Perfetti, C. A. Some reasons to save the grapheme and the phoneme 721
Pollatsek, A. Only the simplest dual-route theories are unreasonable 722
Rosson, M. B. Throw out the bath water, but keep the baby: Issues behind the dual-route theory of reading 723
Seidenberg, M. S. Explanatory adequacy and models of word recognition 724
Shallice, T. The acquired dyslexias and normal reading 726
Taft, M. The lexical account of word naming considered further 727
Underwood, G. Interactive processes in word recognition 727

Authors' Response

Humphreys, G. W. & Evett, L. J. Visual word processing: Procedures, representations, and routes 728

Continuing Commentary **741**

On Searle, J. R. (1980) Minds, brains, and programs. BBS 3:417–457.

Harvey, R. J. On the nature of prgrams, simulations, and organisms 741

Author's Response

Searle, J. R. Patterns, symbols, and understanding 742

On Peters, D. P. and Ceci, S. J. (1982) Peer-review practices of psychological journals: The fate of published articles, submitted again. BBS 5:187–255

Berry, R. L. Administrative freedom vs. academic freedom and peer reviews 743
Boice, R., Pecker, G., Zabrack, E., and Barlow, D. H. A challenge to Peters and Ceci's conclusions with an examination of editorial files for reviewer appropriateness 744
Cofer, C. N. Some reactions to manuscript review from a questionnaire study 745
Sternberg, R. J. Tacit agreements between authors and editors 746

Authors' Response

Peters, D. P. and Ceci, S. J. Peer review: Beauty is in the eye of the beholder 747

On Kyburg, H. E., Jr. (1983) Rational belief. BBS 6:231–273.

Falmagne, R. J. Normative theory and the human mind 750
Sahlin, N.-E. Three decision rules for generalized probability representations 751

Author's Response

Kyburg, H. E., Jr. Probability intervals and rational norms 753

On Campion, J., Latto, R., and Smith, Y. M. (1983) Is blindsight an effect of scattered light, spared cortex, and near-threshold vision? BBS 6:423–486.

Lutzemberger, L., Marzi, C. A., and Tassinari, G. On inferring blindsight from normal vision 754

Authors' Response

Campion, J. and Latto, R. What is blindsight? 755

On Dennett, D. C. (1983) Intentional systems in cognitive ethology: The "Panglossian paradigm" defended. BBS 6:343–390.

Ben-Zeev, A. Aristotle, final cause, and the intentional stance 758
Bogdan, R. J. The intentional stance reexamined 759
Dahlbom, B. Dennett on cognitive ethology: A broader view 760
Gray, T. Beyond Burrhus and behaviorism: Dennett defused 762

Author's Response

Dennett, D. C. When does the intentional stance work? 763